

ENHANCEMENT OF COMPRESSED IMAGE DATA

Abstract of the Disclosure

A xerographic apparatus, a printer, a printer server, and the like processes wavelet domain image data and includes means for receiving the wavelet domain image data representative of an input digital image. The wavelet domain image data may be formatted as a JPEG 2000 compressed file or other wavelet domain file including N levels of wavelet decompositions. An M-level extractor extracts an Mth level wavelet decomposition from the wavelet domain image data where $M < N$. The extracted Mth level wavelet decomposition is a low resolution representation of the input digital image. An image enhancement system receives the extracted Mth level wavelet decomposition and derives an enhancement process such as a tone reproduction curve, a sharpness filter, and the like from the extracted Mth level wavelet decomposition. The enhancement process is used to enhance a higher resolution representation of the digital input image.